WHAT IS CLAIMED IS:

1.   A transaction processing method comprising
the steps of:

relating a first identification (ID) for
identifying a transaction processing of first
information processing means with a second ID for
relating the transaction processing of the first
transaction processing means with a transaction
processing of second information processing means and
storing the related first and second ID's in a first
mapping table; and

transmitting the second ID and a transaction
processing request to the second information processing
means to request execution of a transaction processing
in the second information processing means, and

if a failure occurs in the transaction
processing which has been requested to execute,
specifying the second ID of the transaction processing
to inquire a third ID for identifying the transaction
processing, thereby generating mapping information for
relating the first ID corresponding with the specified
second ID with the inquired third ID.

2.   A transaction processing method comprising
the steps of:

receiving a second ID for relating
transaction processings of first and second information
processing means with each other and a transaction
processing request from said first information

processing means, relating said second ID to a third ID for identifying the transaction processing of the second information processing means, storing the related ID's in a second mapping table, and executing the requested transaction processing,

if a failure occurs in the executed transaction processing, holding a record in the second mapping table relating the second ID of the transaction processing with the third ID for a predetermined period of time, and

if an inquiry in which the second ID is specified is made, reading out the third ID corresponding to the specified second ID from the second mapping table and transmitting the read out third ID to the first information processing means.

3.   A transaction processing method comprising the steps of:

relating a first ID for identifying a transaction processing of first information processing means with a second ID for relating the transaction processing of the first and a transaction processing of second information processing means with each other and storing the related first and second IDs in a first mapping table;

transmitting the second ID and a transaction processing request to the second information processing means to request execution of a transaction processing in the second information processing means,

receiving the second ID and the transaction processing request from the first information processing means, relating the second ID with a third ID for identifying the transaction processing of the second information processing means, storing the related second and third IDs in a second mapping table, and executing the requested transaction processing;

if a failure occurs in said transaction processing which has been executed, holding a record in the second mapping table relating the second ID of the transaction processing with the third ID for a predetermined period of time;

if a failure occurs in the transaction processing which has been executed, specifying the second ID of the transaction to inquire the third ID for identifying the transaction processing,

when an inquiry in which the second ID is specified is made, reading out the third ID corresponding to the specified second ID from the second mapping table and transmitting the read-out third ID to the first information processing means; and

generating mapping information for relating the first ID corresponding to the specified second ID with the transmitted third ID.

4.   A transaction processing method as claimed in claim 2 wherein the value of the predetermined period of time for holding the record is modified depending on whether the first information processing means is

information processing means which makes the inquiry.

5.   A transaction processing method as claimed in claims 3 wherein the value of the predetermined period of time for holding the record is modified depending on whether the first information processing means is information processing means which makes the inquiry.

6.   A transaction processing apparatus comprising:

a transaction execution requesting processor for relating a first ID for identifying a transaction processing of first information processing means with a second ID for relating the transaction processing of the first transaction processing means with a transaction processing of second information processing means, storing them in a first mapping table, transmitting the second ID and a transaction processing request to the second information processing means so as to request for execution of the transaction processing in the second information processing means,

an ID inquiry processor for inquiring a third ID for identifying the transaction processing by specifying the second ID of the transaction processing which has requested the execution if a failure occurs in the transaction processing, and

a mapping information generation processor for generating mapping information relating the first ID corresponding to the specified second ID with the transmitted third ID.

7.   A transaction processing apparatus
comprising:

a transaction execution processor for
receiving a second ID for relating transaction
processings of first and second information processing
means with each other and a transaction processing
request from first information processing means,
relating the second ID with a third ID for identifying
the transaction processing of the second information
processing means, storing the related second and third
IDs in a second mapping table, and executing the
requested transaction processing,

a record holding unit for holding a record in
the second mapping table relating the second ID of the
transaction processing with the third ID for a
predetermined period of time if a failure occurs in the
executed transaction processing, and

an ID response processor for reading out the
third ID corresponding to the specified second ID from
the second mapping table and transmitting the read-out
third ID to the first information processing means if
an inquiry with specification of the second ID is made.

8.   A transaction processing apparatus
comprising:

a transaction execution request processor for
relating a first ID for identifying the transaction
processing of first information processing means with a
second ID for relating the transaction processings of

the first and the second information processing means
with each other, storing the related first and second
IDs in a first mapping table, and transmitting the
second ID and a transaction processing request to the
second information processing means so as to request
for execution of a transaction processing in the second
information processing means,

a transaction execution processor for
receiving the second ID and the transaction processing
request from the first information processing means,
relating the second ID with a third ID for identifying
the transaction processing of the second information
processing means, storing the related second and third
IDs in the second mapping table, executing the
requested transaction processing,

a record holding processor for holding a
record in the second mapping table relating the second
ID of the transaction processing with the third ID for
a predetermined period of time if a failure occurs in
the transaction processing which has been executed,

an ID inquiry processor for specifying the
second ID of the transaction processing to inquire the
third ID for identifying the transaction processing if
a failure occurs in the transaction processing which
has been executed,

an ID response processor for reading out the
third ID corresponding to the specified second ID from
the second mapping table and transmitting the read-out

third ID to the first information processing means when
an inquiry with specification of the second ID is made,
and

a mapping information generation processor
for generating mapping information relating the first
ID corresponding to the specified second ID with the
transmitted third ID.

9.   A program for causing a computer to function
as:

a transaction execution request processor for
relating a first ID for identifying a transaction
processing of first information processing means with a
second ID for relating the transaction processing of
the first transaction processing means with a
transaction processing of second information processing
means, storing them in a first mapping table, and
transmitting the second ID and a transaction processing
request to the second information processing means so
as to request for execution of the transaction
processing in the second information processing means,

an ID inquiry processor for specifying the
second ID of the transaction processing to inquire the
third ID for identifying the transaction processing if
a failure occurs in the transaction processing which
has requested execution, and

a mapping information generation processor
for generating mapping information relating the first
ID corresponding to the specified second ID with the

transmitted third ID.

10.   A program causing a computer to function as:

a transaction execution processor for receiving a second ID for relating transaction processing of first and second information processing means with each other and a transaction processing request from first information processing means, relating the second ID with a third ID for identifying the transaction processing of the second information processing means, storing the related second and third IDs in a second mapping table, and executing the requested transaction processing,

a record holding unit for holding a record in the second mapping table relating the second ID of the transaction processing with the third ID for a predetermined period of time if a failure occurs in the executed transaction processing, and

an ID response processor for reading out the third ID corresponding to the specified second ID from the second mapping table and transmitting the read-out third ID to the first information processing means if an inquiry with specification of the second ID is made.

11.   A program causing a computer to function as:

a transaction execution request processor for relating a first ID for identifying the transaction processing of first information processing means with a second ID for relating the transaction processing of the first and the second information processing means

with each other, storing the related first and second
IDs in a first mapping table, and transmitting the
second ID and a transaction processing request to the
second information processing means so as to request
for execution of a transaction processing in the second
information processing means,

a transaction execution processor for
receiving the second ID and the transaction processing
request from the first information processing means,
relating the second ID with a third ID for identifying
the transaction processing of the second information
processing means, storing the related second and third
IDs in the second mapping table, executing the
requested transaction processing,

a record holding processor for holding a
record in the second mapping table relating the second
ID of the transaction processing with a third ID for a
predetermined period of time if a failure occurs in the
transaction processing which has been executed,

an ID inquiry processor for specifying the
second ID of the transaction processing to inquire the
third ID for identifying the transaction processing if
a failure occurs in the transaction processing which
has been executed,

an ID response processor for reading out the
third ID corresponding to the specified second ID from
the second mapping table and transmitting the read-out
third ID to the first information processing means when

an inquiry with specification of the second ID is made, and

a mapping information generation processor for generating mapping information relating the first ID corresponding to the specified second ID with the transmitted third ID.